

PRESIDENT- LANCE DUNBAR-AL7BK-337-6297 CLUB PHONE: 345-0719

MARCH 1986

"EVENTS"

THE SKY'S

THE

LIMIT

WITH

Mar. 7, 1986...General Meeting 7:00 p.m. at the Spenard Recreation Center - 2020 W. 48th Ave. Directions: Minnesota to Tudor. West on Tudor past Spenard Bldrs. Turn left at corner; drive to end of street. Turn immed. right on 48th. Mid block on left. Meetings here through June.

RADIApril 4, 1986. Raffle drawing at General Meeting.

VEC TESTING....Call Roger Hansen KL7HFQ - 243-2221 for details.

		CALL SIGN	FROM	TO
ANCHORAGE	MICHAEL BARNES	WA7SKG	Technician	General (from Shemya)
	WAYNE CALKIN		No License	General
	NANCY COURTER		No License	General
	BOB DOUGLASS	N7HER	General	Advanced
	DEREK R. EDMONDSON		No License	Technician
	FRANCIS HURLBUT III		No License	General (formerly KL7HNU)
	MICHAEL McLAUGHLIN	WA7USX	General	Advanced
	PATRICK MARTIN	NL7HD	Technician	General
	DARREL MOON	NL7HC	General	Advanced
	JEROME SMITH		No License	Novice
	MIKE WILLIAMS	KAlmnb	Novice	Technician
FAIRBANKS	KRISTIN GROSE	WL7BIV	Novice	General
(2)	PATRICK WILKINSON	WL7BIB	Novice	Technician

(Submitted by Roger Hansen, KL7HFQ, VEC Director)

EDITOR: HARVEY E. ROOKUS - NL7DK 333-4693 3310 CHECKMATE DRIVE ANCHORAGE, ALASKA 99508

AIR FORCE PLANS HE RADAR SYSTEM FOR ALASKA

The United States Air Force has announced plans for a High Frequency Over-the-Horizon Backscatter (OTH-B) radar system to be installed in the state of Alaska. The fact that this system would utilize the 5-28MHZ frequency spectrum has understandably raised concerns within the amateur community, especially since the Russian "Woodpecker" plays havoc with amateur communications on the HF bands.

For those who are not familiar with the OTH-B radar system, I will attempt to describe it in the simplest possible terms.

As we all know, the skywave portion of an HF electromagnetic wave is what makes long distance communications possible. The skywave is bent, or refracted, back to earth by the ionosphere, making it possible for the signal to be heard hundreds or thousands of miles away from the transmitting antenna. The distance is dependant upon the angle of radiation at the transmitting antenna, the frequency of the transmitted signal and the degree of ionization of the ionosphere.

When the transmitted signal reaches the other end, a very small portion of it is reflected back along the path which it just travelled and returns to the area of the tranmitting antenna. This extremely small "backscatter" signal is the basis for the Air Force's HF radar system. By use of extremely sensitive receivers and receiving antennas, it is possible to detect moving objects all the way down to the surface at distances from 500 to over 1800 nautical miles from the transmitter site.

Existing radar installations have a range of about 200 miles and cannot detect possible incursions of U.S. airspace far enough ahead of time to permit timely intercepts by our aircraft. The OTH-B system will augment existing radar and permit detection of intruding aircraft (specifically, the Soviet Bear-H bombers with cruise missle capability) up to seven times sooner than is now possible.

The Air Force held a series of public "scoping" meetings in January to apprize the public of their intentions, and to gain input from interested and concerned parties relating interference with other HF users, and environmental concerns as far as site locations were concerned. It was learned at the Anchorage meeting that two transmit/receive site pairs were planned for Alaska. The two transmit/receive site pairs would cover an area to the west of 120 degrees in azimuth, extending from below the Aleutian Chain through an arc north of Kotzebue. Additional coverage of the Northern coast of Alaska would be provided by AWACS aircraft. The tranmit/receive sites will be located approximately 500 miles from the west coast. Transmit power will be 1 megawatt from each transmitter and

transmit antennas will be

approximately 4,000 feet long and vary in height from 35 to 135 feet. Receive sites will be located about 50 miles from the transmit sites and receive antennas will be approximately 9,000 feet long and will be 65 feet in height. The transmitted signal will be a continuous wave (CW) of varying frequency. The Air Force assures us that they will be using only frequencies assigned to them for this purpose, and should not interfere with other radio services. The system was tested in Maine for one year prior to beginning construction of the East Coast Radar System with no reports of interference to other services. Similar systems are planned for the West Coast and the South Central United States. The West Coast Radar System will be placed under contract in mid-1986, the Central Radar System in 1988 and the Alaskan Radar System in 1989.

The Air Force will prepare and publish a draft environmental impact statement and then hold public hearings before the final environmental impact statement is prepared. I will be receiving a copy of the draft sometime in April or early May and will summarize it here in the newsletter.

Lance, AL78K

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ANCHORAGE AMATEUR RADIO CLUB, INC. Minutes of general club meeting, February 7, 1986 Spenard Recreation Center, 2020 W. 48th Avenue

The meeting was called to order at 1925 AKST by President Lance Dunbar AL7BK. Introductions were held; there were 59 people present.

Lance announced that Harvey Rookus NL7DK is the new newsletter editor.

Club Trustee Bill Reiter KL7ITI gave the final pre-event report on arrangements for the World Championship Sled Dog Races in conjunction with the 1986 Fur Rendezvous. The word is, "Pray for snow!" Bill will be outta town for the races but all is set save for a volunteer to paint some name shingles the day before the first heat (Thursday, February 20). Ed Tucker KL7DU followed upon with a request for help re the Fur Rondy Grand Prix Road Race, an event for which we also provide communications.

Iditarod Communications Director Frank Bowlin WL7D gave us the up-to-the-minute report on communication arrangements for the 1986 Iditarod Trail Sled Dog Race, which starts on March 1. Lil Marvin NL7DL and Harley Steward KL7IZZ will honcho headquarters communications this year (QTH: Northway Mall, next to where we were last year). Lil emphasized the need for help during the day; please contact her for details.

Membership Chairperson Rodney Maney KL7SA said this was the last general meeting chance to renew your AARC membership. While we're on the subject of money, KV9D asked for help (donations/equipment) with his Seward repeater project; a hat was passed around and \$89.25 was collected. Thanks!

A break was taken, after which we were informed that we need to find a small amount of floor space (approx. 3 - 4 sq. ft.) for Ye Clubbe Junque; W4IGM, the current stuckee, needs the space for his grandchildren. Any takers (on the Junque, that is!)?

Lance had been to the scoping session on the propsed USAF OTH-B radar project and told us that the Air Force does not want to interfere with the hams and they don't want us to interfere with them! Lance said that there had been no interference to Amateur communications in a recent Maine test of the radar.

Door fixes prizes were apportioned, as were Life Membership Certificates (LMCs). The LMCs were presented to NL7FZ, KL7EU, and KL7IOL. I finally got my money's worth of door prizes. Thanks, Linda and Nancy!

The meeting was adjourned at 2045 AKST and a bunch of us went in search of the elusive NL7DL, a la Bunny Hunt. Ol' Lunchwagon Lil was hiding out and chowing down at the same time!

Respectfully submitted,

David B. Epstein KL7L0

Secretary

ANCHORAGE AMATEUR RADIO CLUB, INC. Minutes of Board of Directors Meeting, February 12, 1986 Hope Cottage Offices, 2805 Bering Street

Present: President Lance Dunbar AL7BK; Vice-President Bud Laws KL7IBZ; Secretary David Epstein KL7LO; Treasurer Beth Head NL7FZ; Activities Manager Linda Harmon NL7FY; Trustee Bill Reiter KL7ITI; 3-year Board Member Harvey Rookus NL7DK; 1-year Board Members Steve Wilcox KL7JIM, Cathi Moody KL7NR, Ed Tucker KL7DU, and Rick Marvin KL7YF. Not Present: Past President Daniel Stevens KL7WM; 3-year Board Members Fred Toliver KL7HM and Jim Larsen AL7FS; 1-year Board Members Rodney Maney KL7SA and Bill Capers AL7BB. Also Present: VHF Committee Chairperson Doug Dickinson KL7IKX and Lil Marvin NL7DL.

The meeting was called to order at 7:14 pm AKST by President Lance Dunbar AL7BK. The minutes of the January Board Meeting and the February general meeting were read and approved.

Treasurer Beth Daniel Head NL7FZ informed us that the balance in the Club's First National Bank account is now \$322.75, and the balance in the E. F. Hutton interest-bearing checking account is \$22,983.25 (most of our funds had been transferred to the E. F. Huttoin account). The Club spent some \$350 more than it took in in January. The Federal income tax return and the application for the 1986 gaming license have been submitted.

Lance gave a membership report on behalf of the partying KL7SA. As of February 6, there are 406 members in the Club, of which 146 are Lifers. Of the remaining 260 annual members, only 95 have submitted renewals. This leaves a substantial number of people who have not renewed their Club membership and Lance wants to author a personal letter to those people, asking them to renew. Lance will get the letter out.

Activities Manager Linda K. Harmon NL7FY gave us the news on the activities account. Her beginning balance was \$126.09, and she spent \$96.90 for door prizes for the 2/86 meeting, leaving a balance of \$29.19. She took in \$149.00 in ticket sales at the meeting (thanks all you high rollers), giving her a present balance of \$178.19. Linda reported that eight people found Lil Marvin at the Red Robin — the bunny hunt after the 2/86 general meeting.

Club Trustee Bill Reiter KL7ITI provided a somewhat gloomy Fur Rondy report. The women's sled dog race had been cancelled the day of the board meeting due to lack of snow, and KL7DU told us that all sled dog races were going to be cancelled! If it happens, this would catapult Ed's Rondy Grand Prix Road Race into new heights of belle-of-the-ball-ism never before known to mankind, and he was psyched up for it. We shall see....

The Board then turned to the issue of Iditarod. The Question of the Evening was, "What call sign are we going to use?" Up to this point, communications for Iditarod was not a Club function, so could Club equipment be used? Could the Club call be used? Trustee KL7ITI said that unless this was considered a function of the AARC, he would not feel comfortable with the KL7AA call sign being used. The Board decided that it had the authority to determine what is and what is not a club function -- and that Iditarod 1986 is a club function.

So the bottom line is that the call sign, KL7AA, will be utilized by the headquarters station. And Russ Scott KL7EM says we are most welcome to use his KL7EM/R on Mt. Susitna for race comms.

We will hold the raffle drawing at the April 4 general club meeting or once all the tickets are sold, whichever comes first. NL7DL still has some tickets to unload.

Fred Toliver KL7HM has bought the Past President's plaque and Lance will present it to Daniel when he gets back from down south. What about the Ham of the Year gold pan? Lance will look into it.

Lance read letters from UAA and ACC concerning the Club scholarships and the Board decided that we would put all of our scholarship bucks into ACC — two \$250 scholarships per semester. Lance told us that we need to nominate two VEC Board members. He read off a list of potential candidates and told us that he was going to make some selective contacts. Lance wanted the Board to authorize the purchase of a "Basic Packet" videotape put out by Kantronics. The cost is \$25.00. The purchase was authorized and a check was cut. Lance read a letter from the Alaska Women's Gold Nugget Triathlon committee. That event will be held on May 18 and they are asking us for communications help. Lance read us a letter received from Italy's "Club Titanic" Amateur Radio Club. They sent us a nice bumper sticker, too:

VHF Czar Doug Dickinson KL7IKX needed/requested \$80 so he could purchase a part for 34/94 which would expand the autodial capacity by 200 slots. We said, freely and openly, "Go for it!" and authorized the purchase. (Another check was cut.) Doug mentioned that some information concerning simplex autopatches will be forthcoming in the Club newsletter.

There being no further business, the meeting was adjourned at 8:59 pm AKST by the Honorable AL7BK.

Respectfully submitted,

David B. Epstein KL7L0

Secretary

MARCH 1986

Several important things have happened since we last met.

1st. Version 3 has been installed in the 94 machine, opening up some new club user functions. The most important is the new Mailbox feature, including the ability to leave another user a phone number or frequency for them to call you on. I have printed copies of the mailbox/phone patch operations.

If you are a club member and wish a mailbox/autodial location contact me, and we'll load it up. You'll notice in the listing that several users have a * after their names, these folks do not have the same mailbox and autodial location. We try to keep the two together, unless of course a user doesn't require one, or in some case's lives in a Long Distance service area.

2nd. We have aquired a duplexer set for the Minchumna Project. This will speed up completion of this drawn out project. We have a site, clearance for the site, the repeaters, one of the two antenna's, and are nearing completion. Al Andrus [KL7EF] deserves a large round of thanks for his dedication to this project.

3rd. The Mt. Susitna repeater [145.270 -600 tx) is on the air. KL7EM (Russ Scott) has been a very busy beaver completing this. Russ and his busy crew installed a solar panel, and corrected the wiring on the 9db antenna. Initial reports are VERY favorable, Kenia, Soldotna, Montanna Creek, Anchorage, Hope, and one mobile worked it from Eureka Lodge near Gunsite Mountain, coming from Glennalen. This particular mobile was running 1 watt! into the "rubber duck" loss antenna. He reported a fair signal from the repeater. (running at 1.5 watts and 3db whip, at that time) the user was even inside a metal enclosure at the time. At 11,000' (an airplane) but even so, that is one heck of a range (about 150 air miles) considering the power levels involved.

4th. The power amplifier for 90/30 has been "misplaced", the City is attempting to locate it at this time, I don't have any further details. So we are on QRP for awhile more. Meanwhile Russ's repeater will fill in the void.

5th. The new voting system is here, I've finished construction, and am in the process of calibration. I plan to install it Saturday Feburary 15th. This should get rid of the HUMMMMM once and for all (I hope) This will nessitate 94 being down for about two hours.

6th. With the new software we can now keep trivia on the 94 repeater use.

In the first week of operation we have averaged:

232.5 minutes of Repeater Operation per day.

298 unidentified keyups [kerchunks] PER DAY, I know you don't kerchunk repeaters, but someone is!

4 phone patch's per day, average.

1 mailbox access per day, average.

And had a total of 19 seconds of time out time on the repeater, average per day.

Remember the timer is set to 60 seconds during morning and evening drive times, that's from 715 - 815 in the morning and 430 - 600 pm in the evening, this means that you've got to break your long winded QSO's into 60 second transmissions or less to keep the timer from shutting off the repeater, this will allow other users to get in during the busy periods. At all other times the repeater timer is set to 3 minutes. Patch's are limited to 5 minutes, and EMERGENCY patch's to 10 minutes.

George KV9D is working diligently on the Seward Repeater KV9D/R. Plans now call for it's install in the spring, when the Ice leaves the roof of the building where it's going. And just as soon as George can sneak the UHF repeater into the house he will be working on getting the new UHF machine on the air. The old one has eaten [burned to a crisp] a transformer, and is down for now.

There have been some questions recently about "simplex autopatch's", I have copied the pertinentant FCC rules regarding third party phone patch's, and the required standards. Basically any automatic Phone patch requires a control operator on duty at the transmitter point whenever third party (ie unlicensed) personnel are using the transmitter, [or automatic control) and all control of the remote base station MUST be done at 220.5 MHz and above. If you have a licensed operator at the transmitter, to control the transmitter while it is tied to the phone line, and screen incoming calls BEFORE they are put on the air, or in any way cause the amateur transmitter to put a signal on the air, then they are allowed, BUT if they don't meet the above requirements, as spelled out in the FCC documents, then they are NOT allowed in the amateur service!

autodial	call	name	-
10	al7bk	lance dunbar	-
11		fred wegmer	-
12	k17wm	donial stevens	-
13	n17d	tim michael	-
14	kl7k	dave olson	_
15	_	-	_
16	kl7eb	david stevens	-
17	kl7iw	walt burkevich	#
18		steve wilcox	-
19	kl7sk	art taylor	-
50	kl7jgu		-
21	k17hd	mark hadley	-
55	kl7yf	rick marvin	-
23	kvad	george hurd	-
24	k17zm	rich whitney	_
25	01700	frank pratt	-
26	wb5dnt		_
27	n1742	reserved beth head	atmo
28	,		_
29	k1710	david epstein	_
30	_	-	_
31	_	_	_
32	1.17		_
33 34	kl7oy		_
35	wligm	-	_
	k6rso	ed shilling	-
36 37	1.174-		*
38	kl7dm kl7ho	mary laws arlene steward	-
39	KIZHO	uriene steward	_
40	1.17===	1-5-	
41	k17gqq	john spencer information	_
42	kl7fd	ken delp	_
43	- KINIG	- gerb	_
44	ke4gs	kelly anderson	_
45	ol7fs	jim larsen	_
46	*****	reserved	_
47	_	-	_
48	k17fb	chris hazlett	-
49	n17fm	tom berticivich	_
50	k17fko		_
51	-	_	_
52	k17m1	reed mckinney	_
53	-	-	_
54	w7sov	pete laplante	*
55	*****	reserved	*
56	-	-	_
57	_	_	_
58	-	-	_
59	walacn	John carty	_
60	kl7sa	rodney maney	_
61	-	-	_
65	nl7cv	howard hornsby	*
63	-12764	-	_

64	*****	reserved	-
65	n17ad	guy rossini	-
66	kl7hfa	mike johnnie	-
67	nl7c	jim moody	-
68	kl7nr	cathi moody	-
69	al7ej	dave oglesby	-
70	w17adk	don workma	_
71	nl7a	jj jones	_
72	****	reserved	*
73	w7ici	bob lupo	_
74	*****	reserved	-
75	*****	reserved	_
76	wb4bcn	Jim wolker	$\overline{}$
77	-	_	*
78	*****	reserved	-
79	wbSmyu	bill borker	**
80	k17tm	tom green	*
81	-	-	*
82	-	-	*
83	-	-	-
84	-	-	-00
85	-	-	*
86	-	-	*
87	-	-	*
88	kl7rb	steve diehl	-
89	-	_	*
90	kl7iti	bill reiter	-
91	*****	reserved	*
92	*****	reserved	- 46
93	*****	reserved	*
94	k7tpn	dick phelps	*
95	*****	reserved	*
96	kl7imd	jim hilton	*
97	kl7ikx	doug dickinson	*
98	****	reserved	*
99	*****	reserved	-100

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box	number	call	name	_
				*
300			bill reiter	
301			wilse morgan	*
305		-	-	*
303		_	_	
304		1.17/-	oord repeater	*
305		k17dd/r		*
307		k171kx	doug dickinson	-
308		-	-	486
309		*****	reserved	*
310		al7bk	lance dunbar	_
311		k17hfm	fred wegmer	-
312		kl7mm	danial stevens	_
313		nl7d	tim michael	_
314		kl7k	dave olson	-
315		_	7	_
316		kl7eb	dovid stevens	_
317		k17we	tim pettis	#
310		kl7jim	steve wilcox	_
319		kl7sk	art taylor	_
320		k17jgu	jay jennings	_
321		kl7hd kl7uf	mark hadley rick marvin	_
323		KI/UT	george hurd	
354			rich whitney	_
325			frank pratt	_
326			dan white	-
327		*****	reserved	inte
328		n17fz 1	oeth head	_
329		k1710	david epstein	_
330		-	-	-
331		_	_	=
332		man .	-	-
333		kl7oy	dave smyers	-
334			john shull	-
335		k6rso	ed shilling	_
336		1/17/		*
337 338		kl7izz kl7ho	harley steward orlene steward	-
339		KIZIIO	dilene steward	_
340		kl7gqq	john spencer	-
341		kl7ap	betty rhodes	*
342		k17fd	ken delp	-
343		_	_	-
344		ke4gs	kelly anderson	_
345		al7fs	jim lorsen	400
346		****	reserved	-
347		_	_	_
348		k17fb	chris hozlett	-
349		n17fm	tom berticivich	-
350		kl7fko	al bianco	_
351		- ls17m+	mend mokingov	_
352		kl7mj	reed mckinney	_
353 354		k171a	rosemary honroth	*
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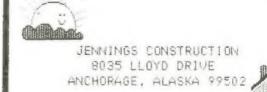
360	kl7sa	rodney maney
361	-	-
362	kl7jdr	bruce mills
363	_	v9Mb
364	****	reserved
365	ki7ad	guy rossini
366	nl7av	sue hilton
367	nl7c	jim moody
368	kl7nr	cathi moody
369	ol7ej	david oglesby
370	w17adk	don workmo
371	n17a	j.j. jones
372	w17d	frank bowlin
373	w7ici	bob lupo
374	kl7p	dave vogel
375	-	-
376	mb4bcn	jim walker
377	****	reserved
378	****	reserved
379	****	reserved

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SALUDOS, AMIGOS!

And you know who you are, c'mon, lets mingle! So good to have seen you last night (at the February general club meeting)! What's that? You weren't there? A shame. Then you didn't get to see the latest in Amateur outerwear, and I'm talking about the AARC Club Jacket. Anyone's who's anyone should have one.

Okay, cut the crap, David, and let's get down to brass tacks. When are we gonna have the next order (everyone's favorite question)? Well, let's start now, boys and girls! Just fill out the form below and mail it to me or bring it to the March meeting. I WANT MONEY, HONEY! No money is no order (but it is a nice thought).

So you respond, "Okay, David, you greedy, money-hungry so-and-so, what am I paying for?" Didn't mean to offend you. The club jackets are royal blue with the Official AARC logotype screened on the back of the coat in gold. Blue and gold, the state colors, get it? (I got a mind like a steel trap). They come in a lightweight flannel lining and a heavier-weight pile lining. The outer shell is water-resistant (but not waterproof), so don't get all over me if you catch pneumonia. The club'll send you a nice get-well card if you do. The flannel-liners are \$28 a piece; the pile-liners are \$33 a piece. ADD FIVE DOLLARS TO YOUR ORDER FOR SIZE EXTRA-EXTRA LARGE (XXL). Delivery time is about six weeks from the time the order is submitted. So if you want a jacket, let's don't procrastinate -- send me money NOW so we all can get our jackets ASAP. In other words, cough up the \$\$ and get with the program.

WATCH FOR DAVID'S OF TURNAGAIN AARC CLUB JACKET FASHION SHOW AT THE MARCH GENERAL MEETING. MUSIC WILL BE BY THE LATE, GREAT MARVIN GAYE.

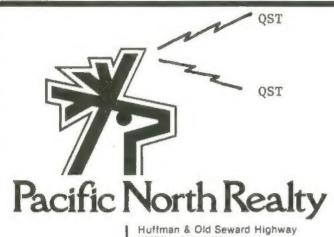
I WANT SUSHI! No, really, David, I want a club jacket. Or if I'm a real high roller, I might want more than one! My order is as follows:

I WANT	FLANNEL-LINED jacket(s), size(s)	(S,	М,	L,	XL,	or	XXL)
FLANNEL O	RDER COST = \$28 x jackets = \$		_		subr	nitt	ed.
I WANT	PILE-LINED jacket(s), size(s)	(S,	М,	L,	XL,	or	XXL)
PILE ORDE	R COST = \$33 x jacket(s) = \$				SI	ıbmi	tted.
	ADD \$5 FOR EACH XXL JACKET ORDERED = \$						
	TOTAL AMOUNT TENDERED \$	_					 *
							 •

Personal info - Name, call sign, address, phone numbers. Put it here!

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FRED TOLIVER KL7HM



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